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|-------------------------------|------------------------|---------------------|--|
| <b>Notice of Allowability</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                               | 09/753,764             | KOTTAPALLI, SAILESH |  |
|                               | Examiner               | Art Unit            |  |
|                               | David J. Huisman       | 2183                |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to the pre-appeal brief request for review filed on August 15, 2005.
2.  The allowed claim(s) is/are 1-22.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached  
 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of  
 Paper No./Mail Date 20051004.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
 Paper No./Mail Date \_\_\_\_\_
4.  Examiner's Comment Regarding Requirement for Deposit  
 of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
 Paper No./Mail Date \_\_\_\_\_
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

#### *Amendments to the Claims*

2. Regarding claim 19:

In line 12, replace "when if" with --if the--.

In line 15, replace "when if" with --if the--.

#### *Amendments to the Drawings*

3. With reference to the drawings filed on April 18, 2005 (since applicant's after-final amendment has been denied entry):

In Fig.2, replace "212" with --222--, replace "234" with --134--, replace "236" with --136--, replace "238" with --138--, replace "240" with --140--, replace "242" with --142--, and replace "244" with --144--.

In Fig.3, replace "302" with --102--, replace "304" with --104--, replace "306" with --106--, replace "308" with --108--, replace "310" with --110--, replace "312" with --112--, replace "314" with --114--, replace "316" with --116--, replace "334" with --134--, replace "336" with --136--, replace "338" with --138--, replace "340" with --140--, replace "342" with

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--142--, and replace "344" with --144--.

4. The following is an examiner's statement of reasons for allowance:

Regarding claims 1, 10, and 19, the examiner has argued that applicant's admitted prior art (AAPA) has taught first and second storage elements dedicated to first and second multiplexers, respectively. More specifically, the first storage element is dedicated to the first multiplexer over a first period of time (i.e., it serves no other purpose but to store data outputted by the first multiplexer). At a later period in time, the first storage element may be used by the second multiplexer. Likewise, the second storage element is dedicated to the second multiplexer over a second period of time (i.e., it serves no other purpose but to store data outputted by the second multiplexer). At a later period in time, the second storage element may be used by the first multiplexer.

Applicant has argued on page 2 of the pre-appeal request, filed on August 15, 2005, that "the examiner has attempted to show that AAPA discloses this element by giving the term 'dedicated' a definition contrary to its actual meaning... A shared storage element is the exact opposite of a dedicated storage element. The examiner has attempted to get around this unavoidable fact by arguing that, for the mere moment of time in which the shared storage element is receiving a thread from one of the multiplexers, that storage element is dedicated to that multiplexer. To construe the term 'dedicated' in such a manner is to strip the term of all meaning." Similar arguments appear in the remarks filed on April 18, 2005 and July 15, 2005.

From applicant's arguments, since AAPA has taught storage elements being dedicated during time windows, and applicant argues that AAPA does not read on applicant's claims

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because the storage elements are, in the overall scheme of things, shared among multiplexers, then applicant's "dedicated" must be limited to dedicated at all times of operation. More specifically, if a first storage element is dedicated to the first multiplexer, then that storage element is dedicated to that multiplexer at all times of operation. The first storage element may not be written to by any other component but the first multiplexer. Similar reasoning applies to the second storage element.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### *Conclusion*

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Flynn et al., U.S. Patent No. 5,907,702, has taught a thread switching system that includes a primary instruction queue for holding active thread instructions and a thread switch instruction queue for holding dormant thread instructions. There are multiple multiplexers coupled to the queues, but they are not dedicated to respective queues.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David J. Huisman whose telephone number is (571) 272-4168. The examiner can normally be reached on Monday-Friday (8:00-4:30).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached on (571) 272-4162. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DJH  
David J. Huisman  
October 7, 2005

  
EDDIE CHAN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100